

FIG. 1

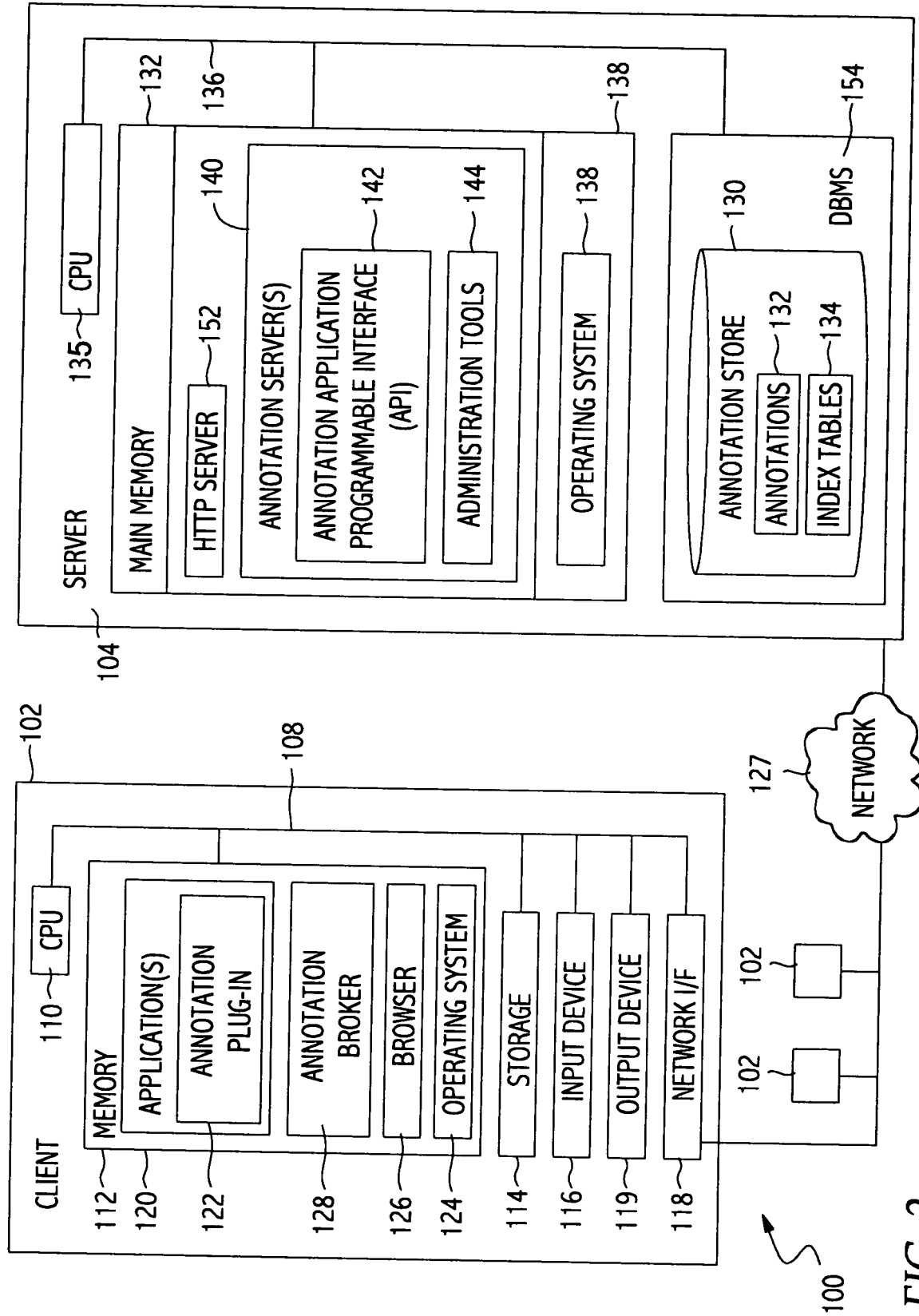


FIG. 2

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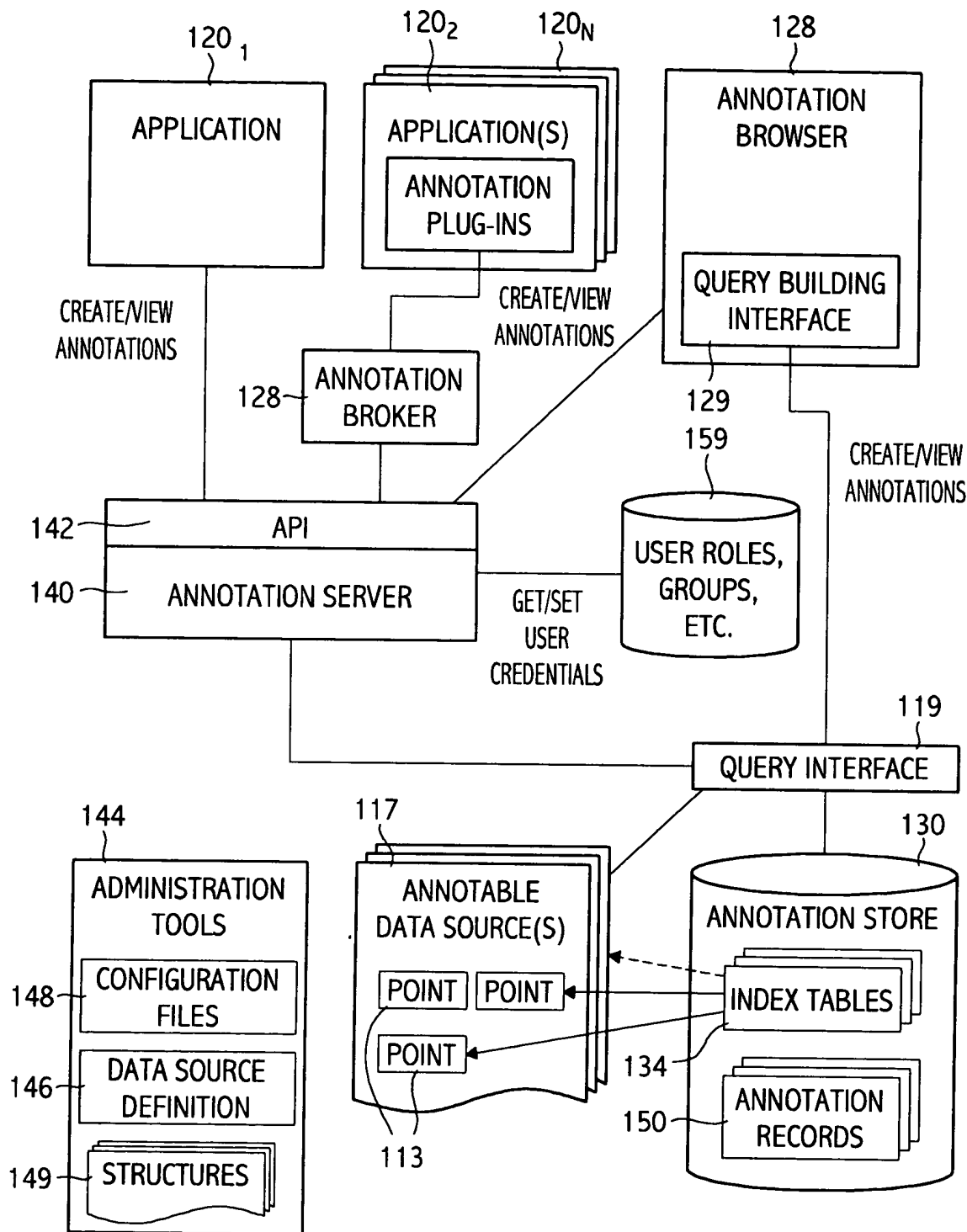


FIG. 3A

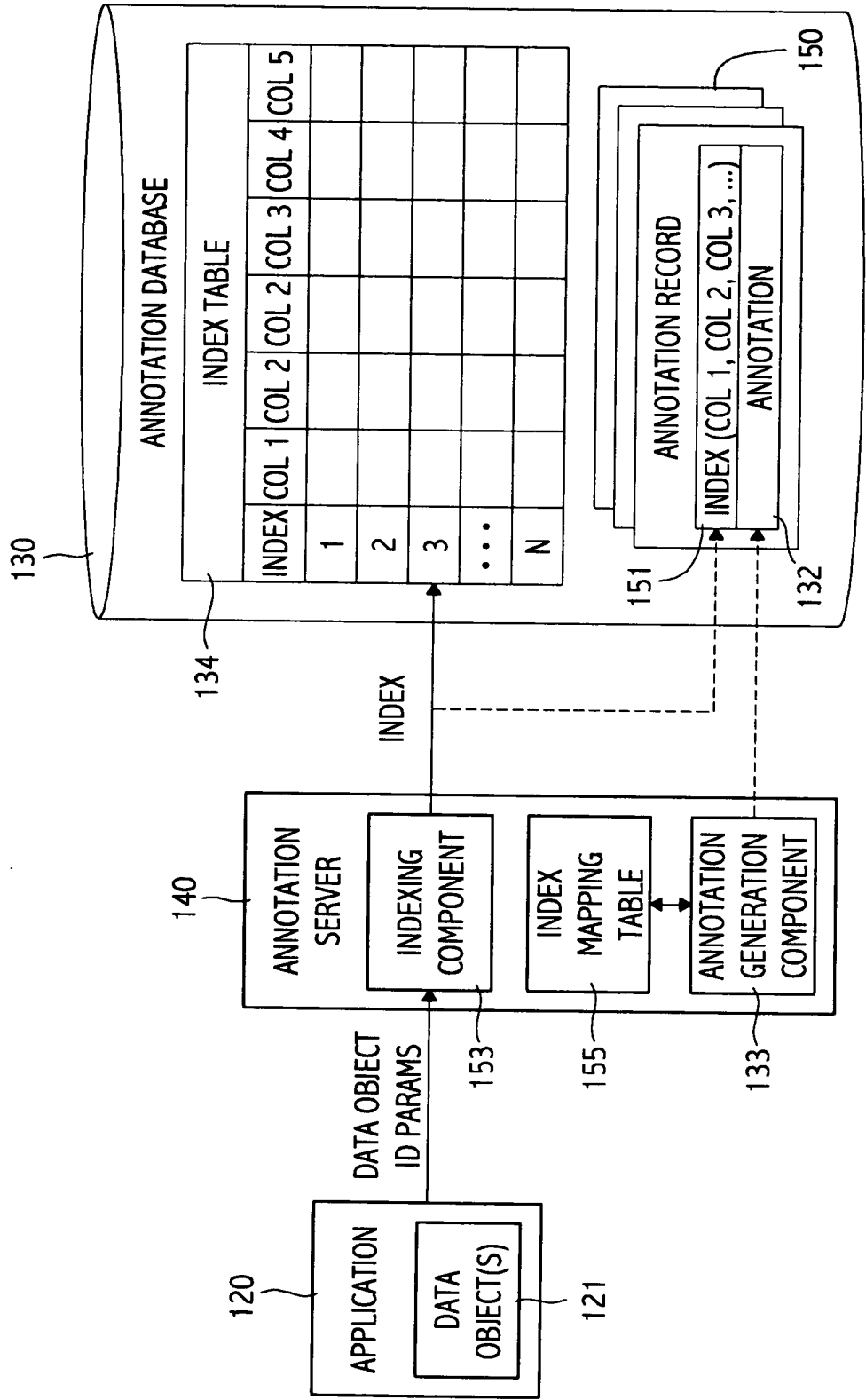


FIG. 3B

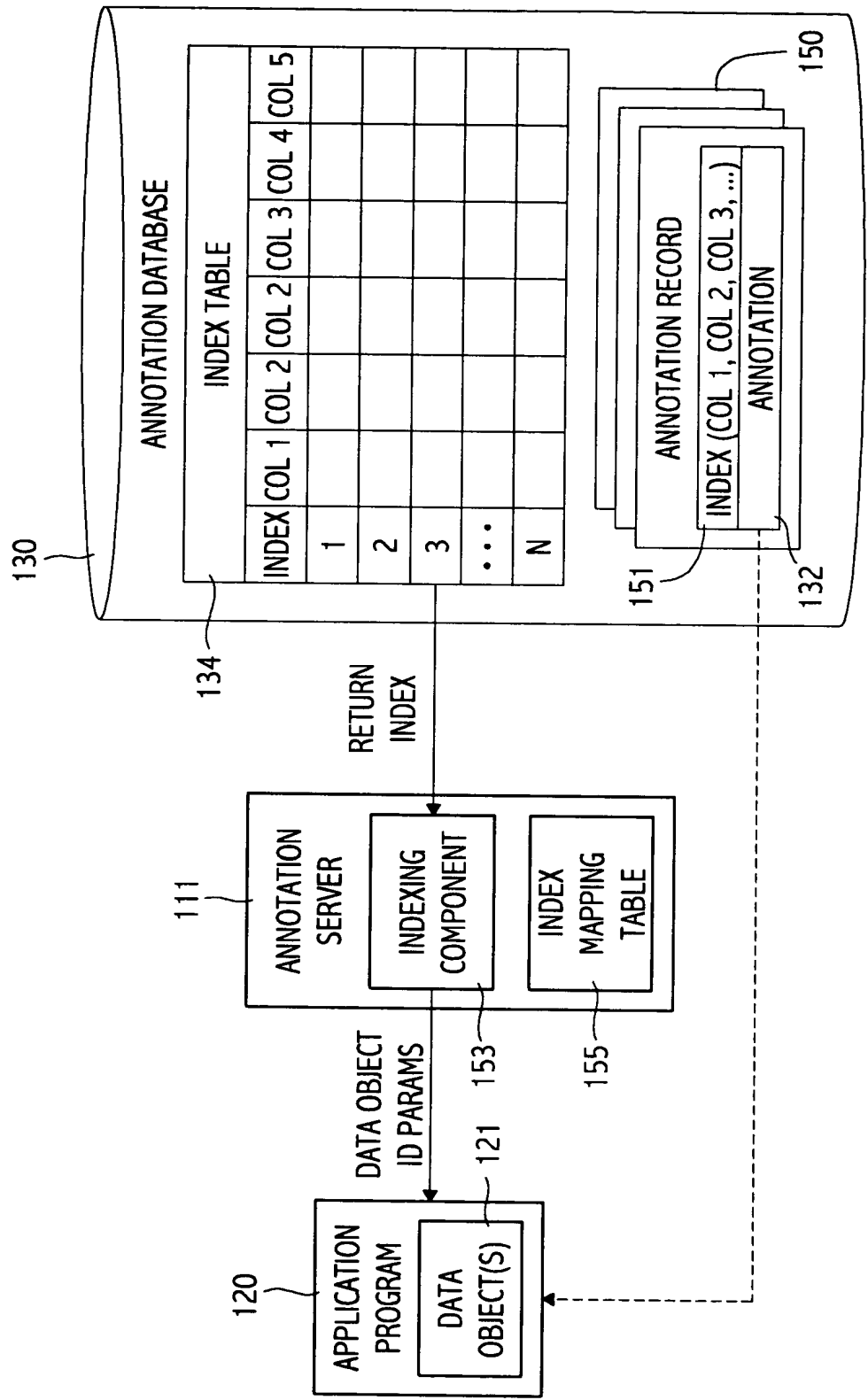



FIG. 3C



API FUNCTION	DESCRIPTION
QueryRoles	Get a list of roles for the user.
SetRole	Set the active set of roles for the session.
Query Structure Names	Given the data source type and subtype of the target documents and all of the points in those documents the user wants to annotate, return the list of available structures.
QueryStructureTransforms	Given an annotation type returned from QueryStructureNames API, return an array of URLs to XSL transforms.
QueryPoints	Given a GUID, and list of DataSourceVersions, return a list of data sources and the points in the data sources.
QueryAnnotationIDS	Given a list of search criteria, return an array of an annotation GUIDs that match the criteria.
GetAnnotation	Return the annotation data for a given GUID
CreateAnnotation	Create a new annotation with provided data and access control information
UpdateAnnotation	Replace specific fields in an annotation which results in a new version of the annotation
DeleteAnnotation	Delete (or hide) the specified annotation
AddPoint	Take an existing Annotation and add a new annotated point to it
DeletePoint	Delete a point from an annotation
QueryAllowedPointTypes	Return the allowed point types and subtypes given a data source type and subtype
QueryDataSourceSubtypes	Return the configured data source subtypes given a data source type

FIG. 3D

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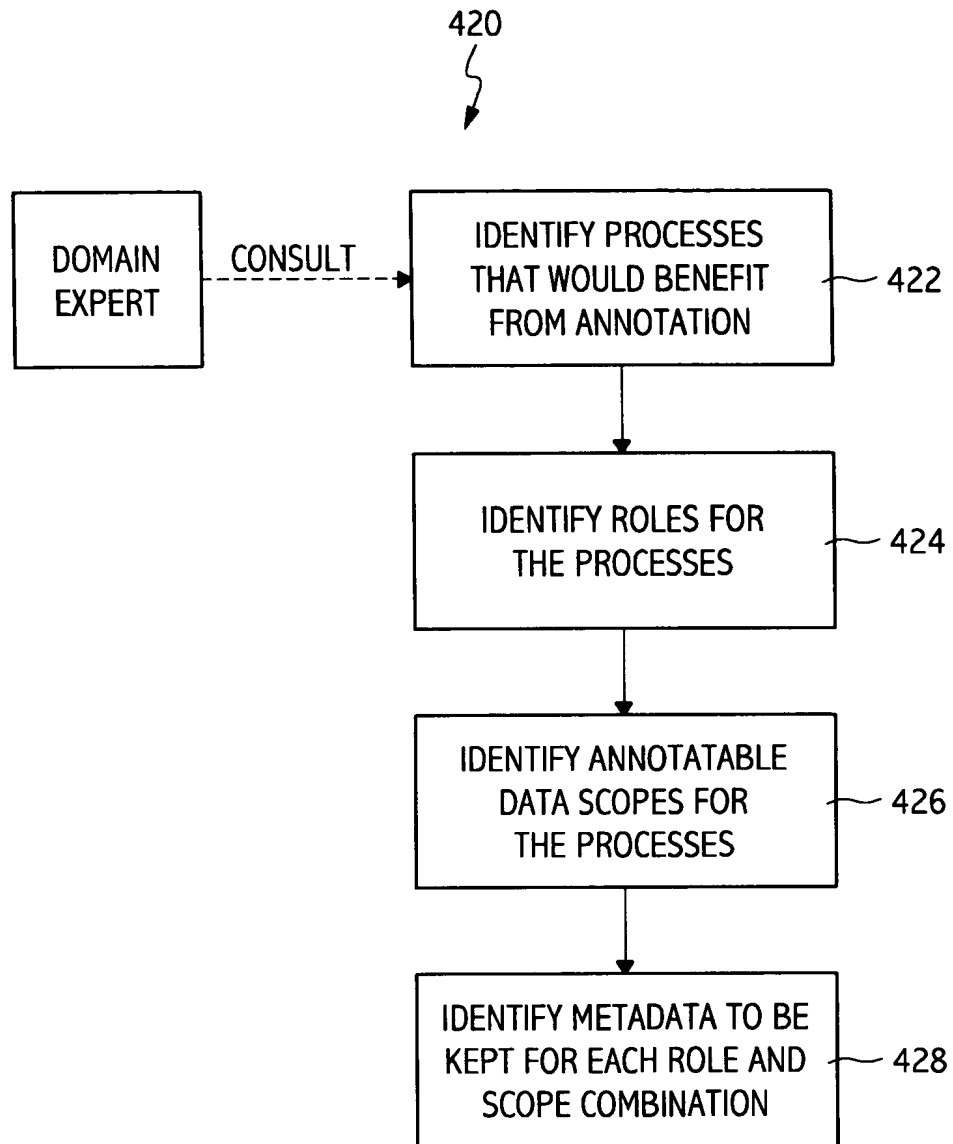


FIG. 4A

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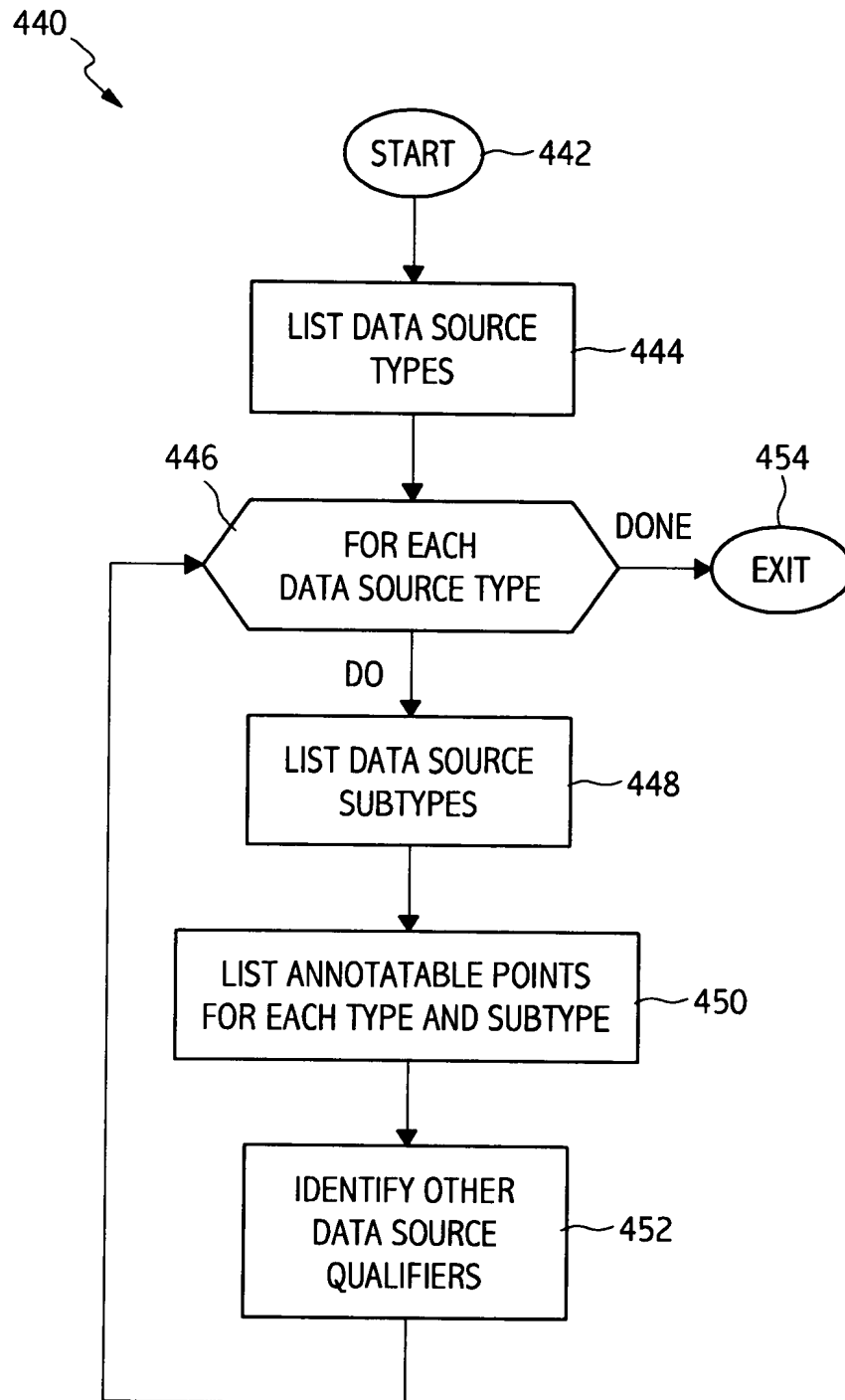


FIG. 4B

Data Source Type	Point Type	Meta Information
Relational (and Excel)	Table	Table Name
	Column	Table Name, Column Name
	Cell	Table Name, Key, Column Name
	Row	Table Name, Key
	Document	Path
Word Document/HTML file	Word Range	Path, Start character, End character
	Spot	Context, View, Marked Record, Column
	Cluster	Context, View, Marked Record, Column
	Row	Context, View, Marked Record
	Column	Context, View, Column
Pdf (requires Adobe Framemaker)	File	Context, View
	Text	Page, Start word, End word, Start of set, End of set
	Graphic	Page, Top, Left, Bottom, Right

FIG. 4C

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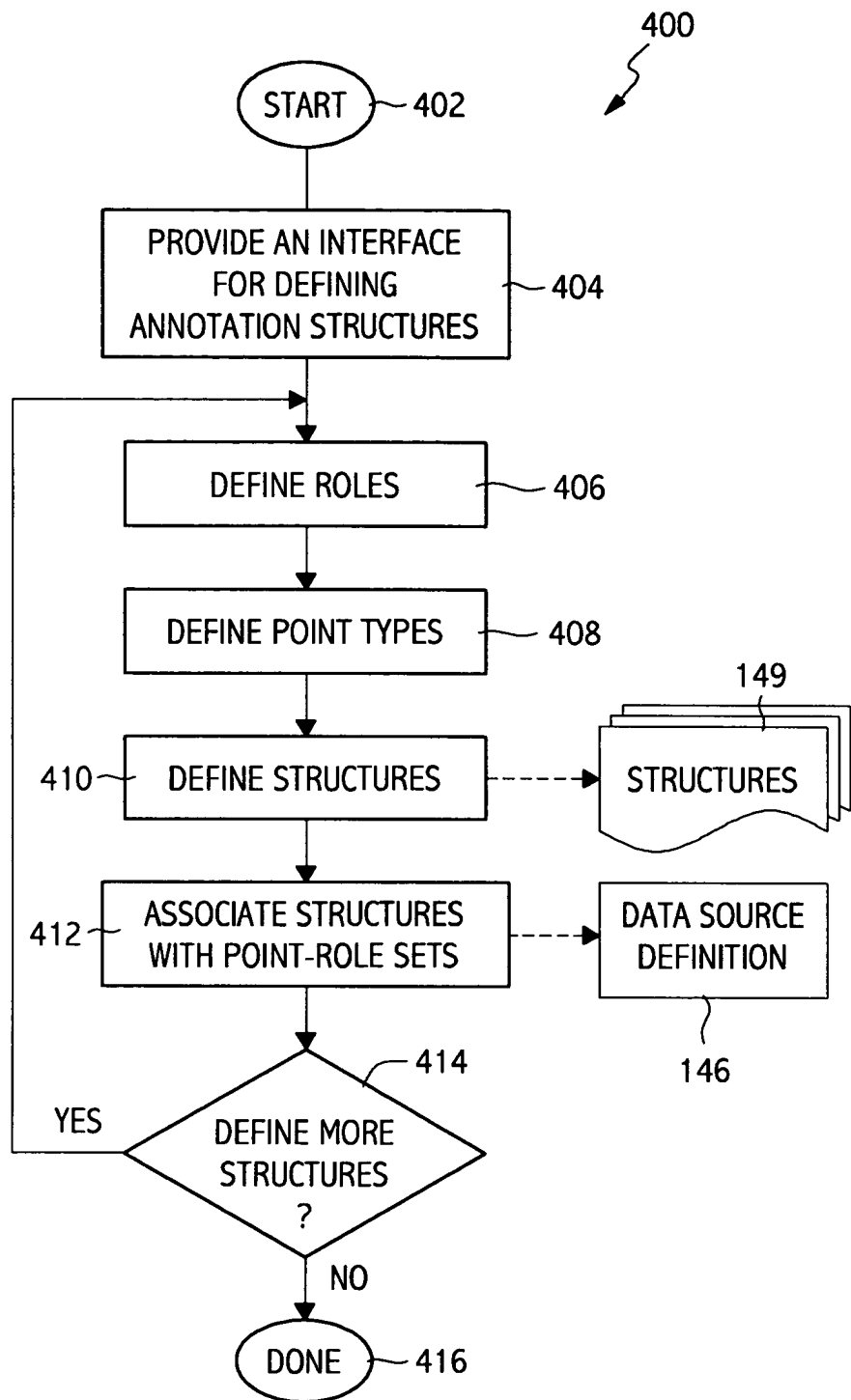


FIG. 4D

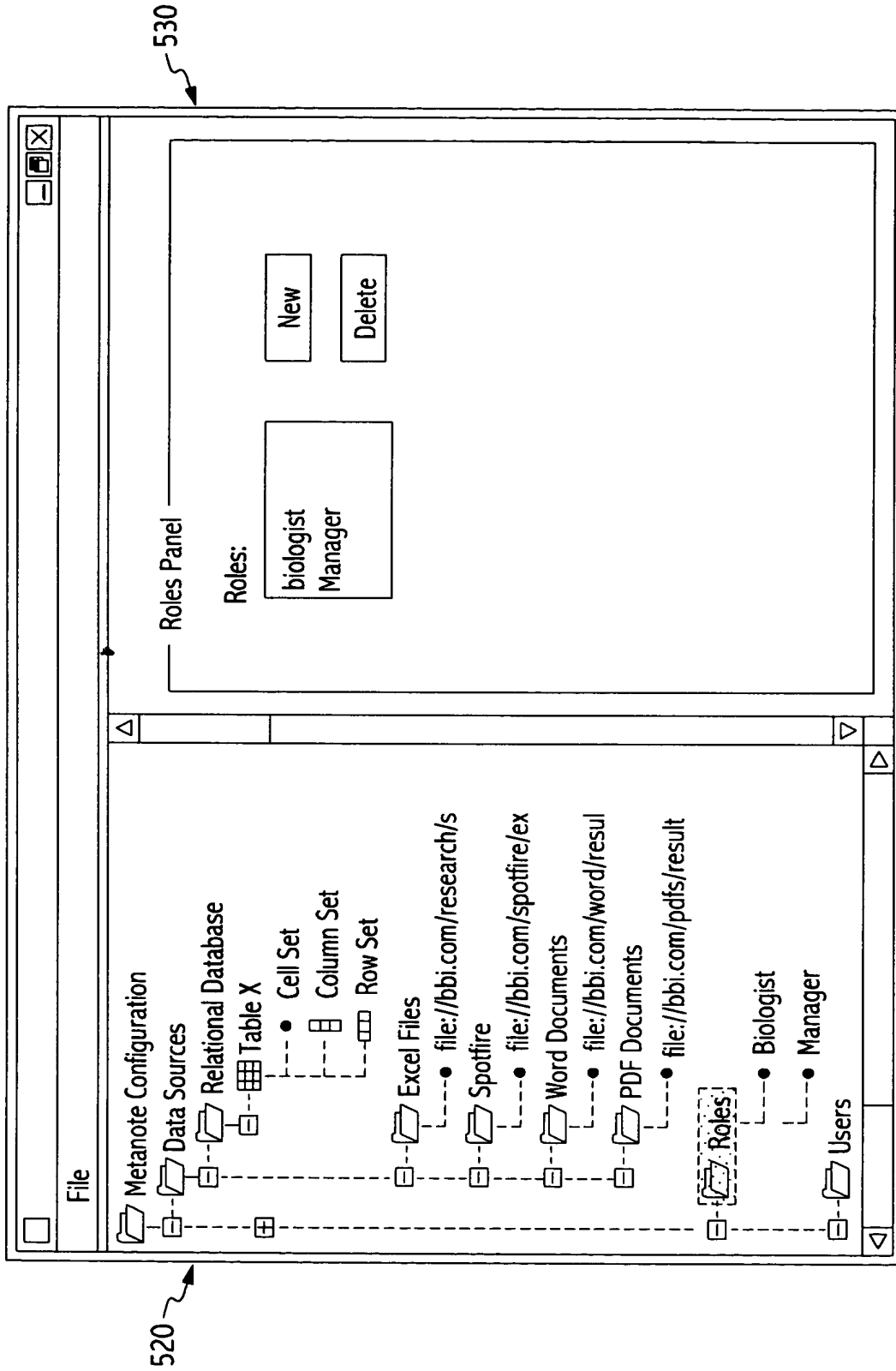


FIG. 5A

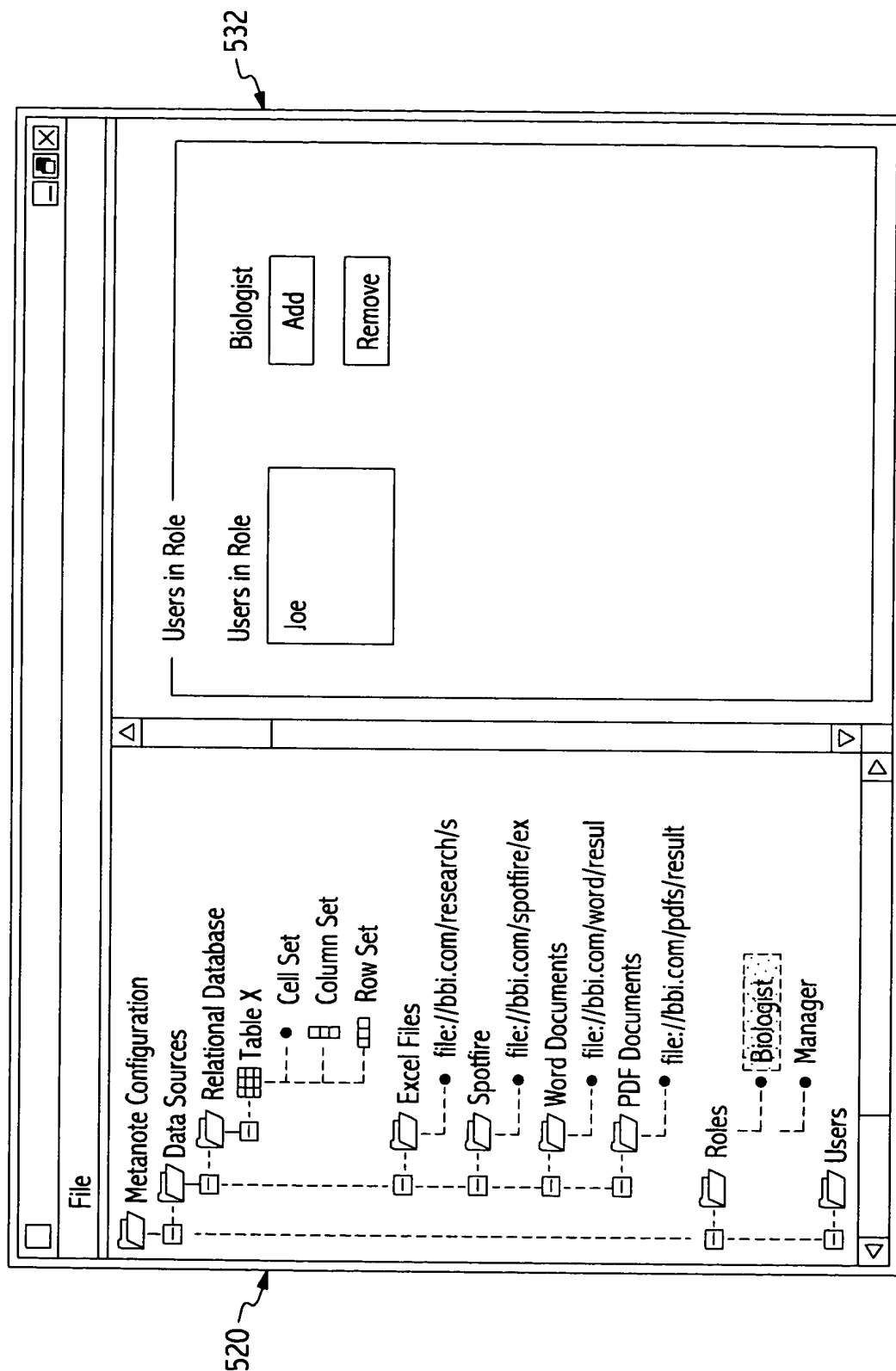


FIG. 5B

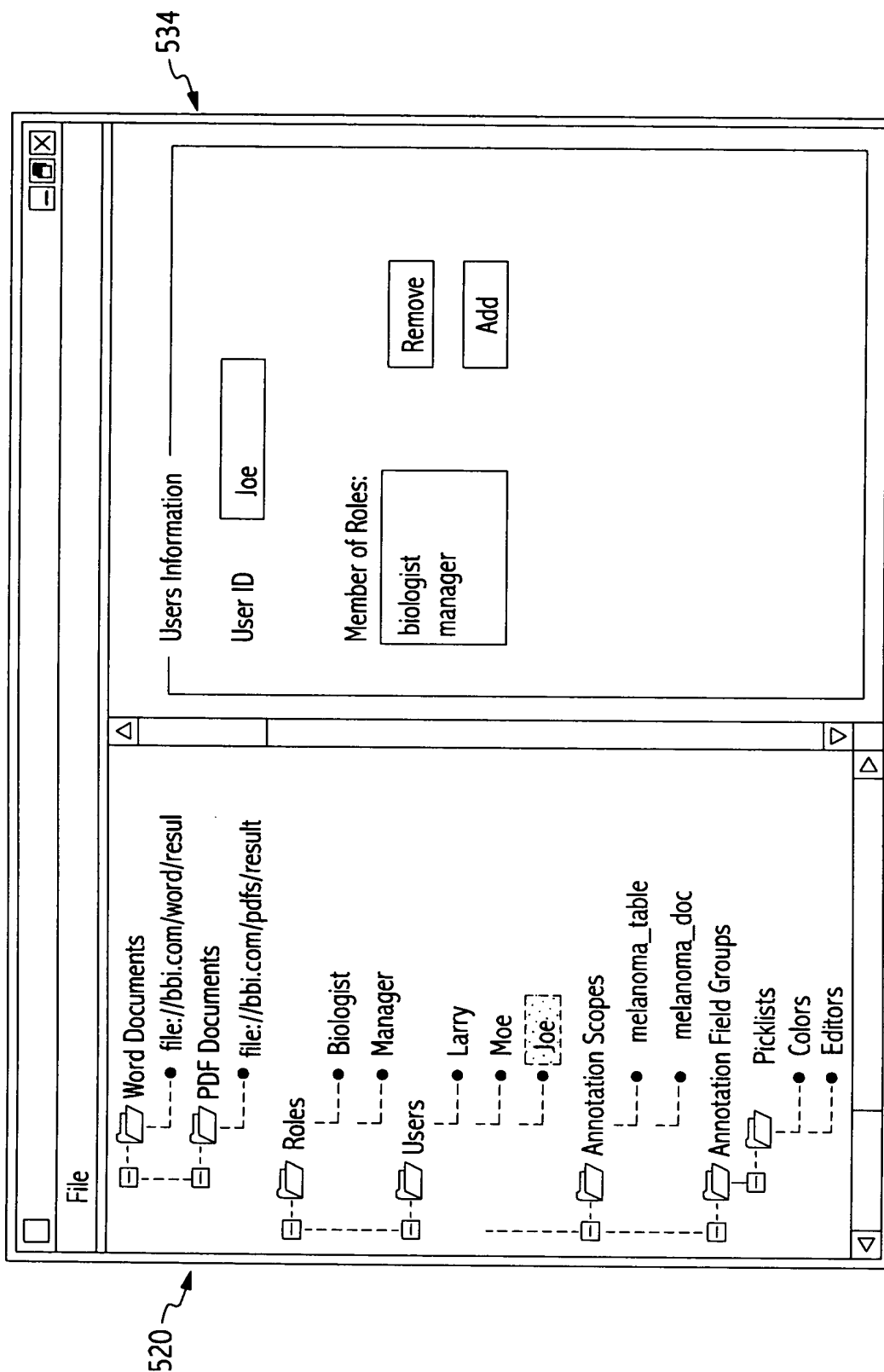


FIG. 5C

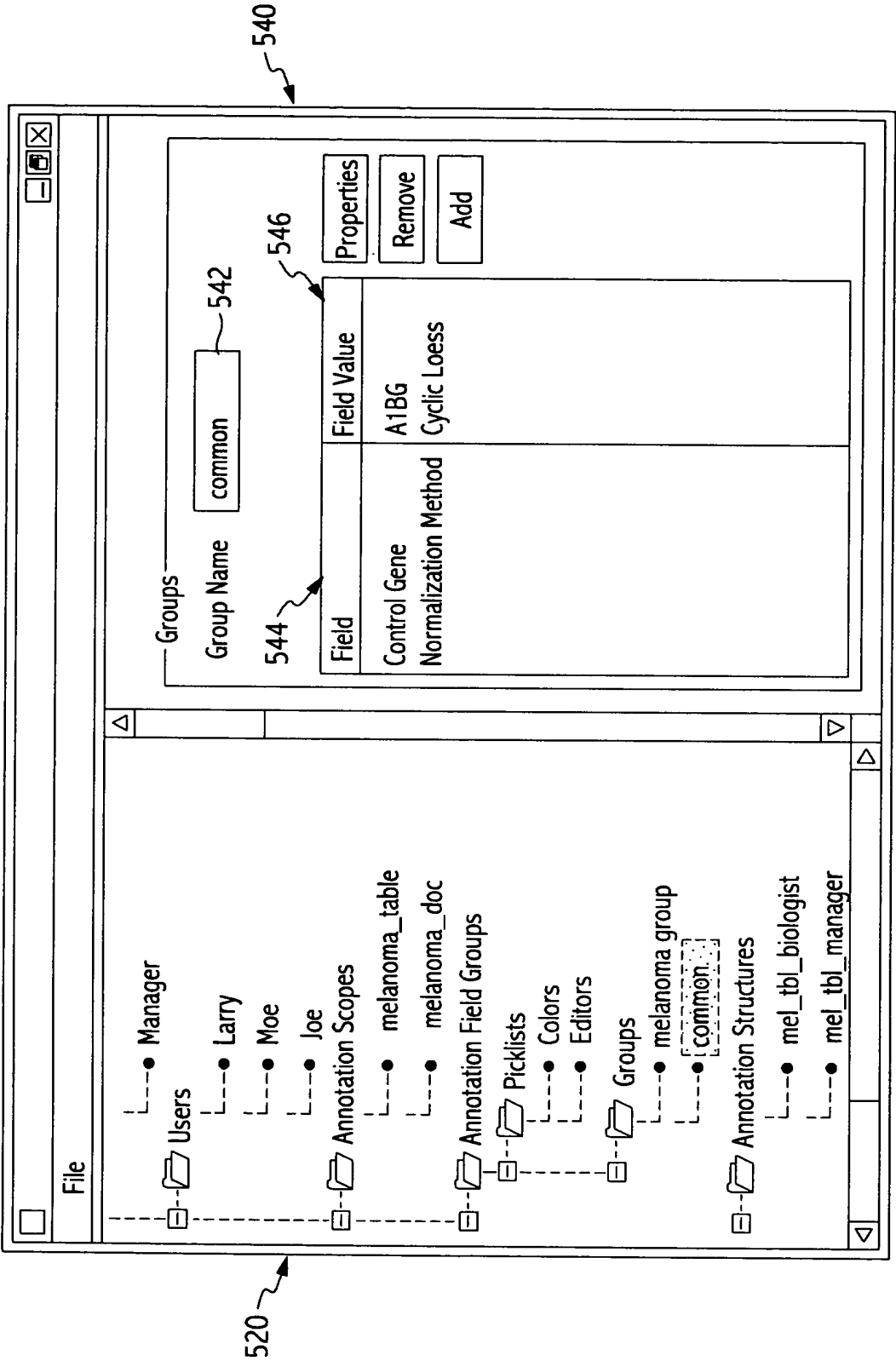


FIG. 5D

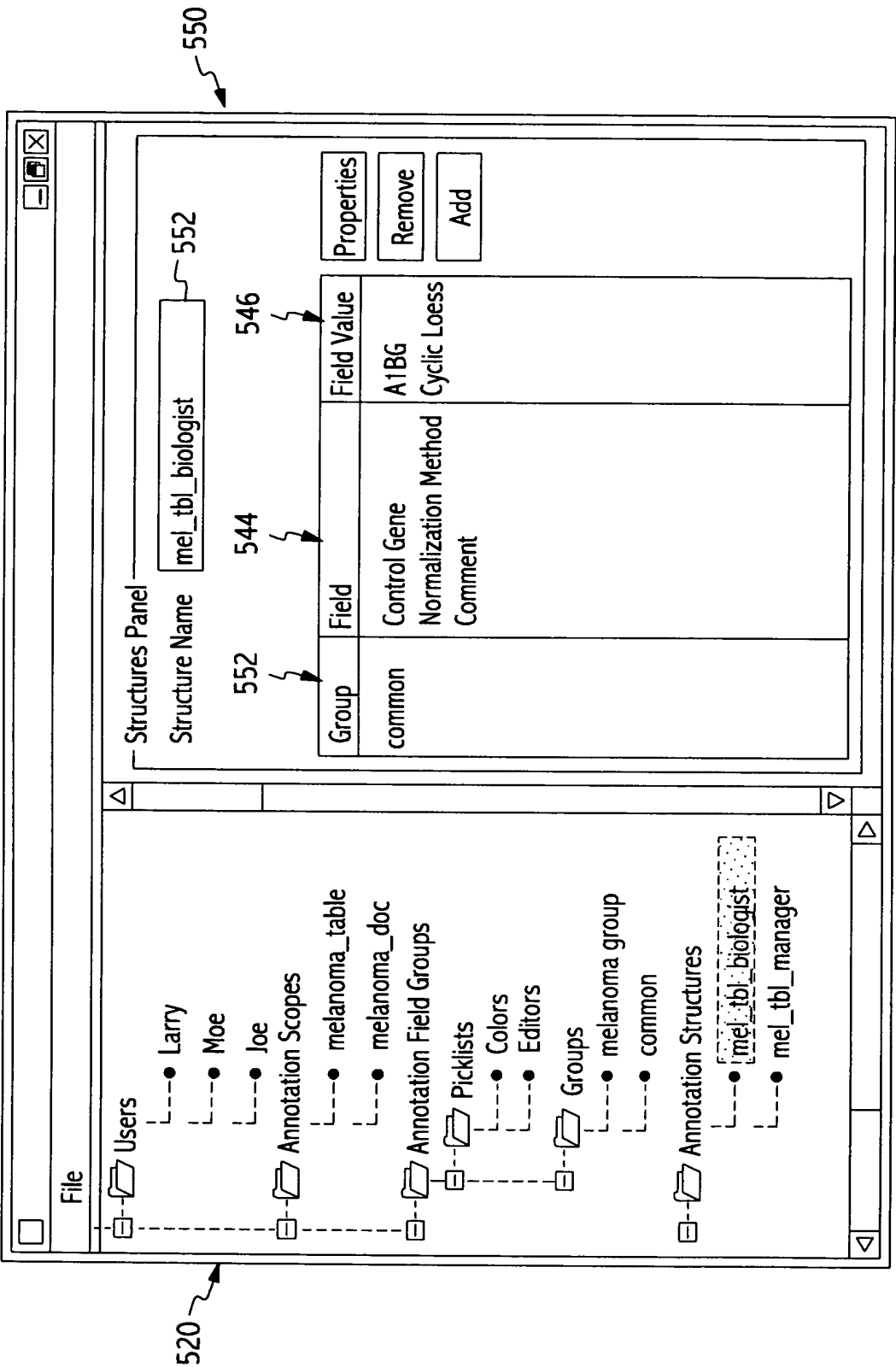


FIG. 5E

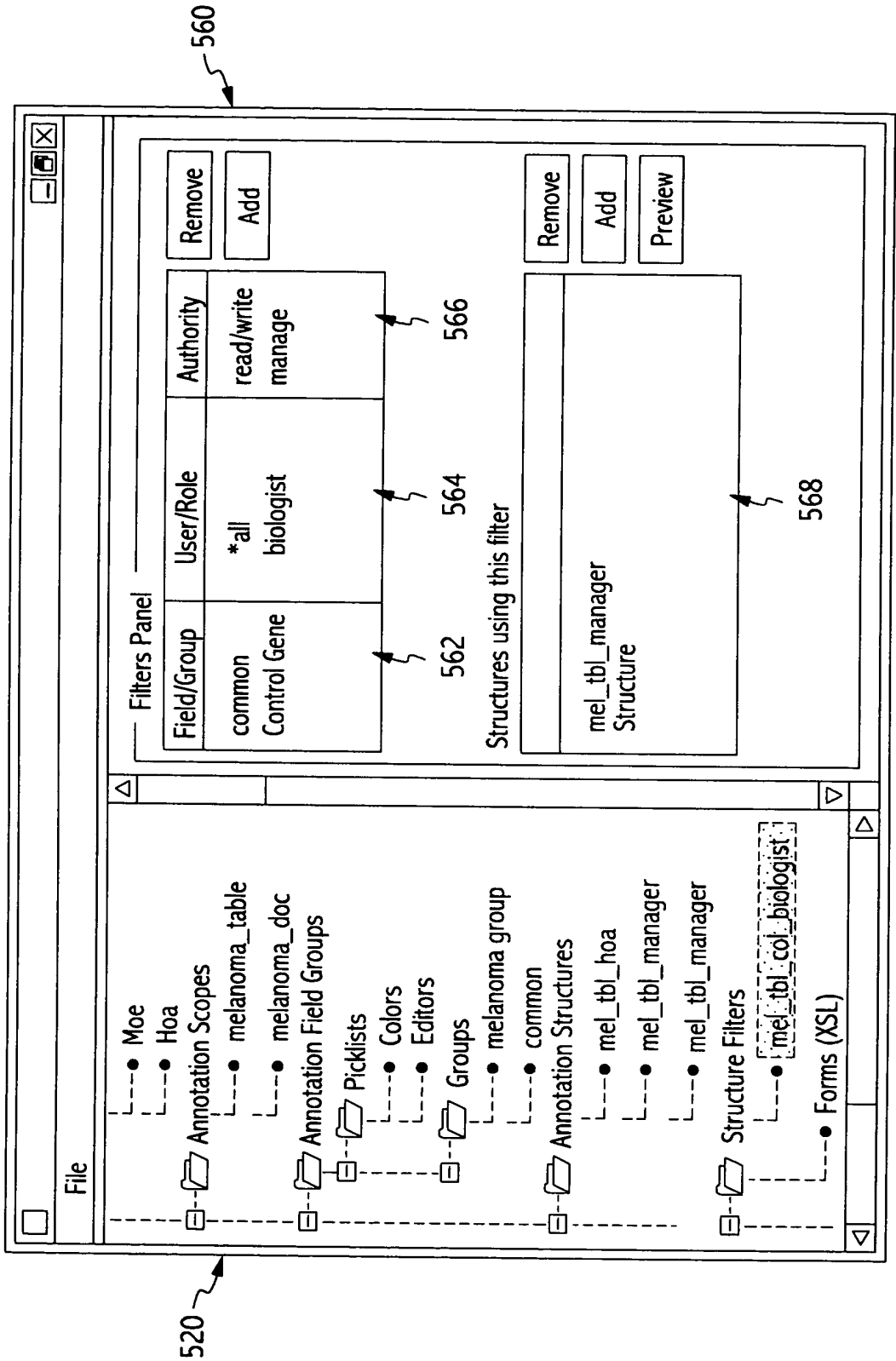


FIG. 5F

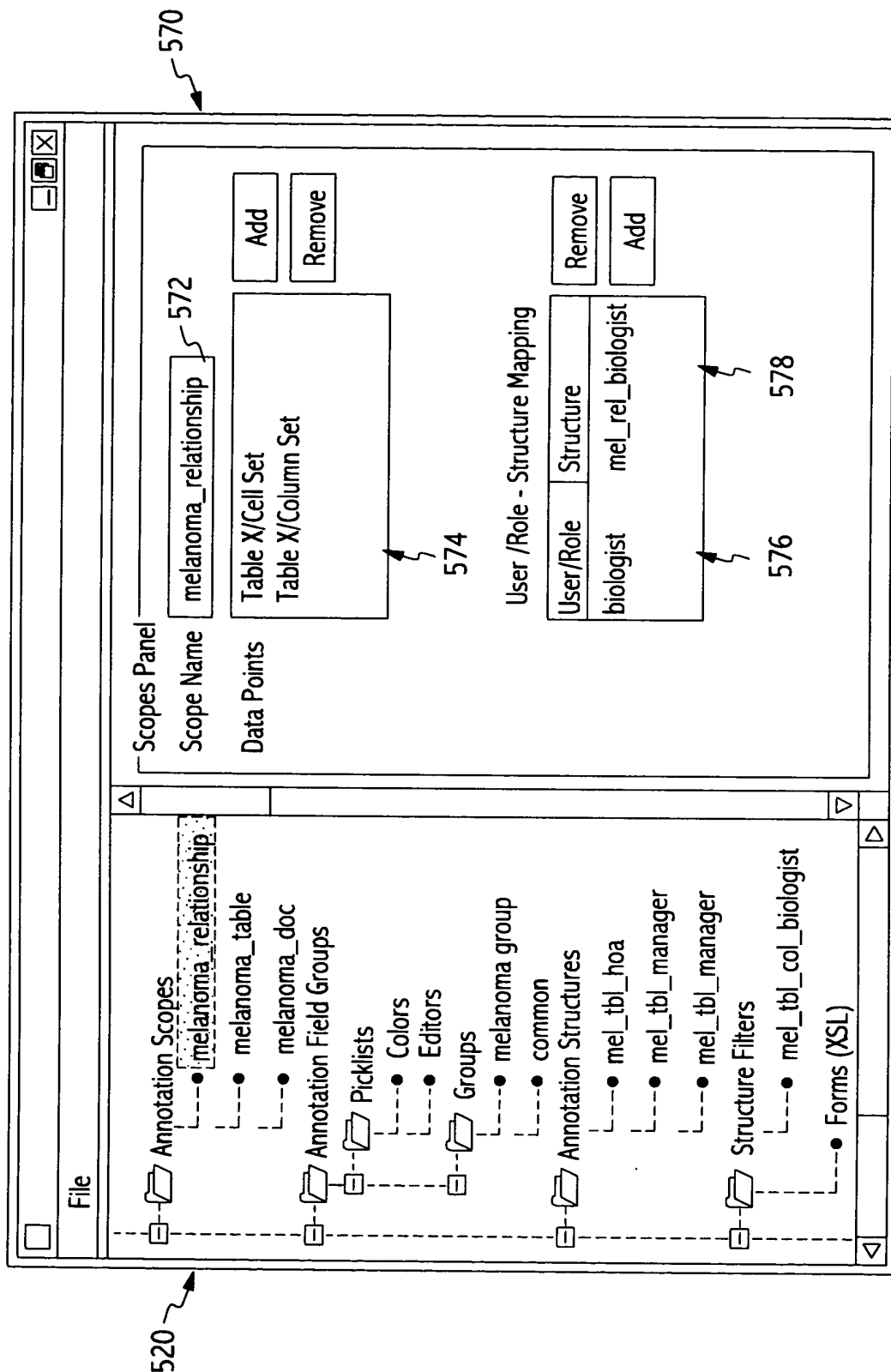


FIG. 5G

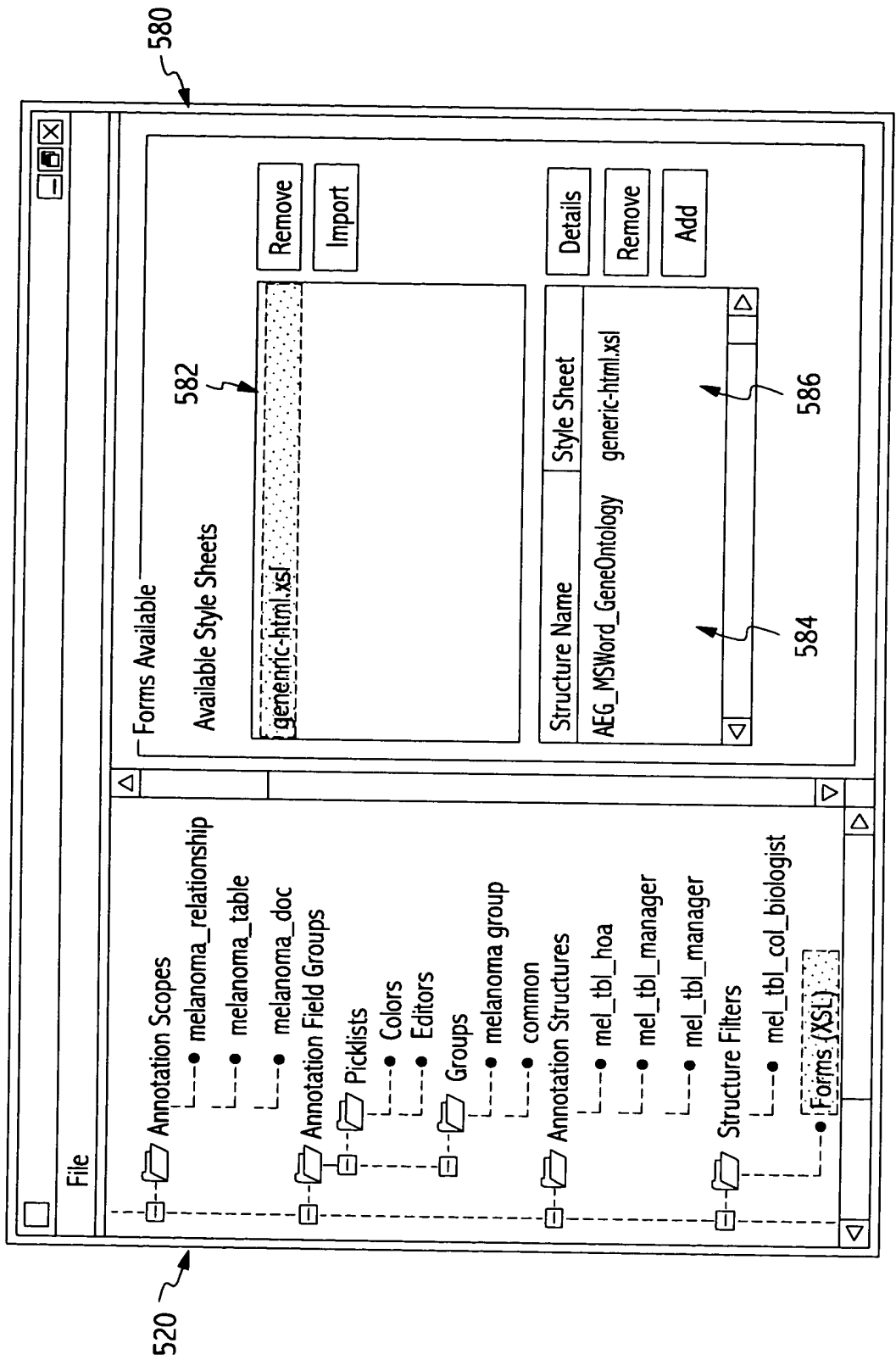


FIG. 5H

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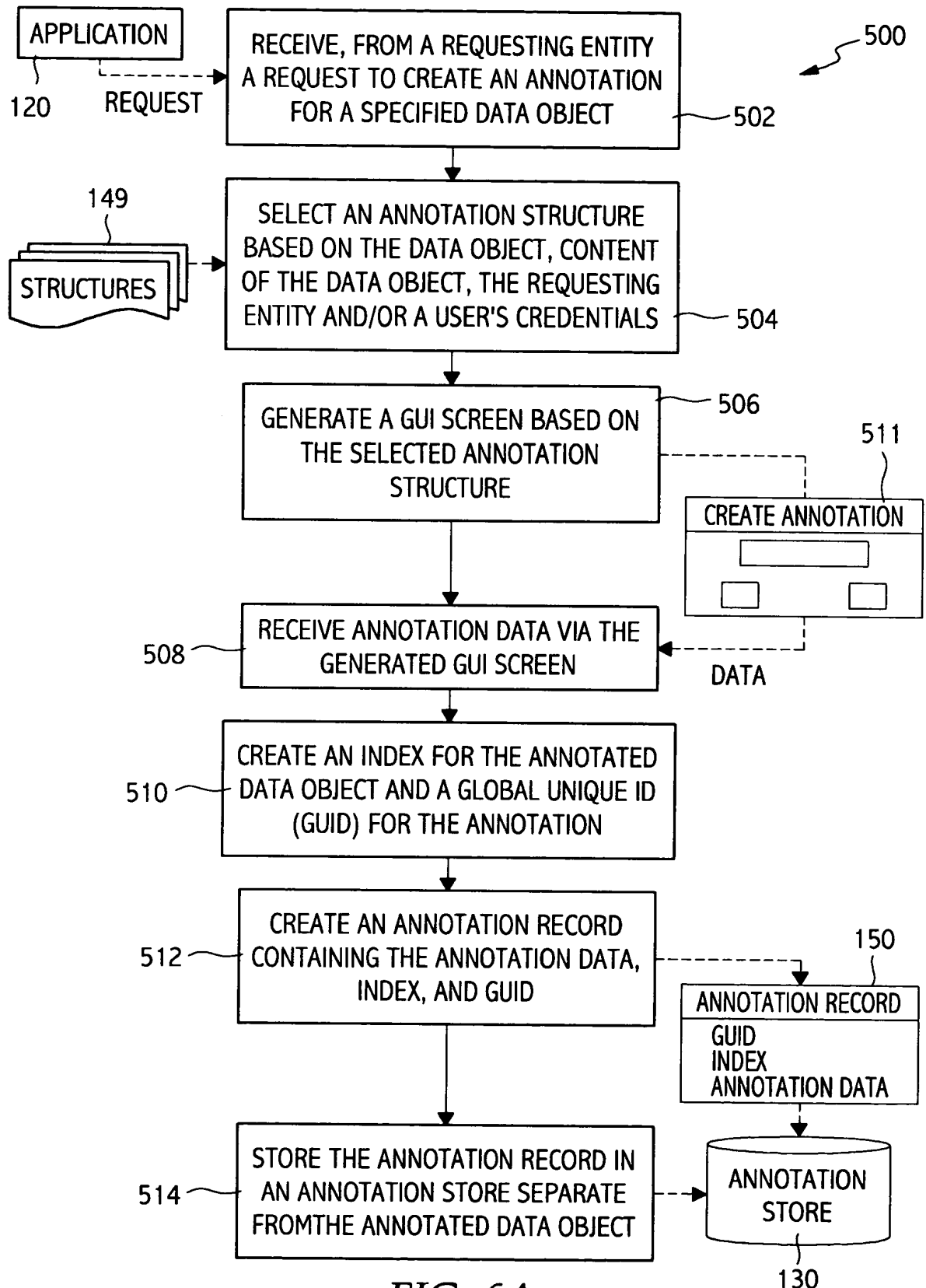


FIG. 6A

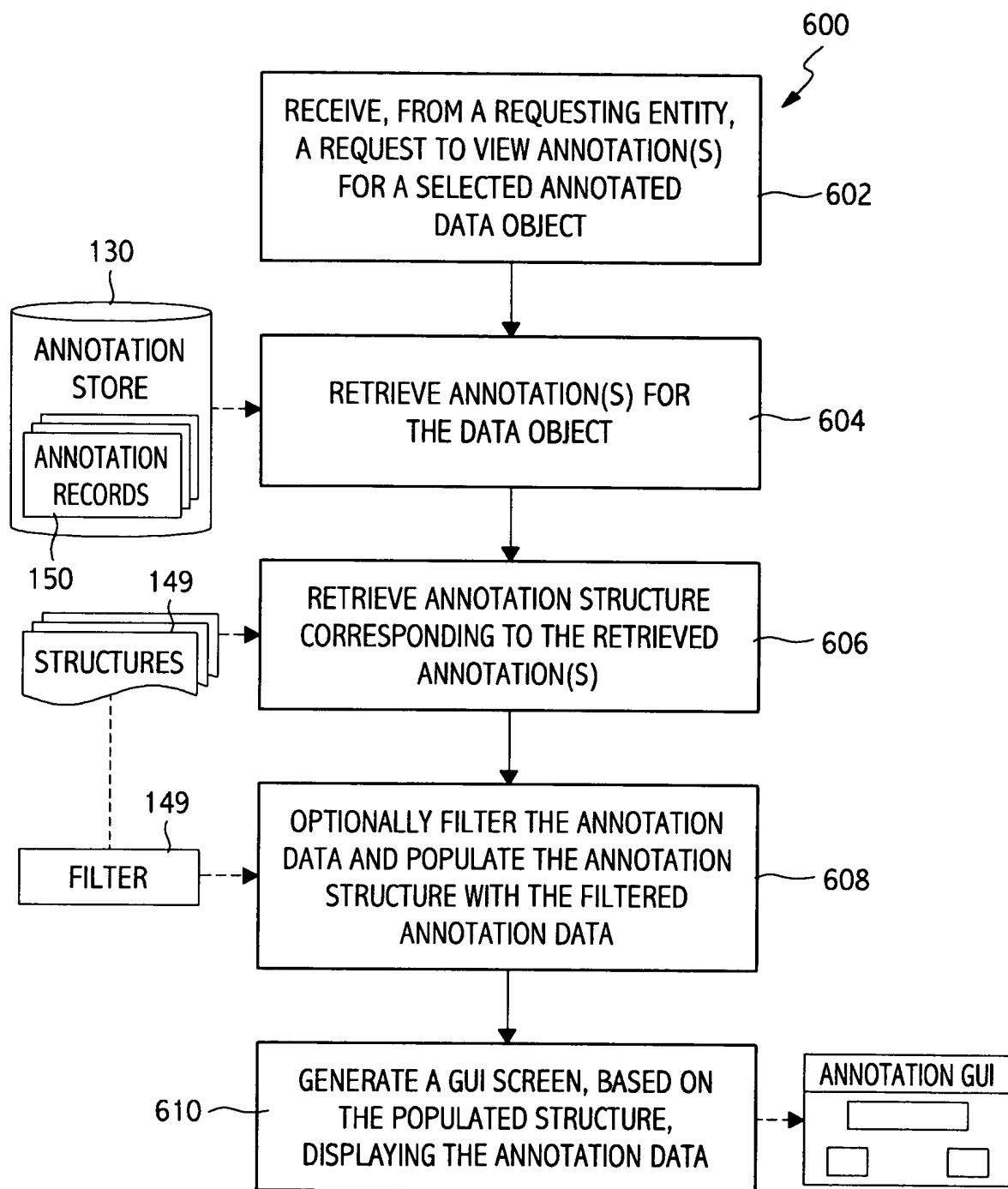


FIG. 6B

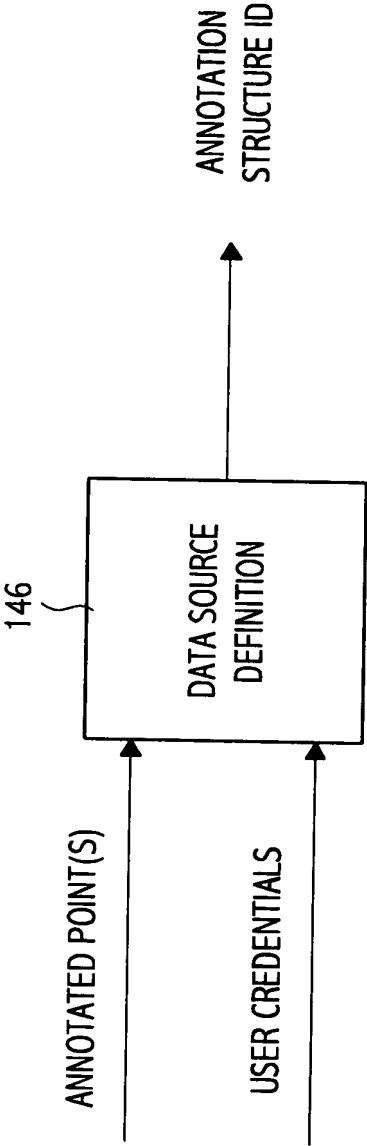


FIG. 7A

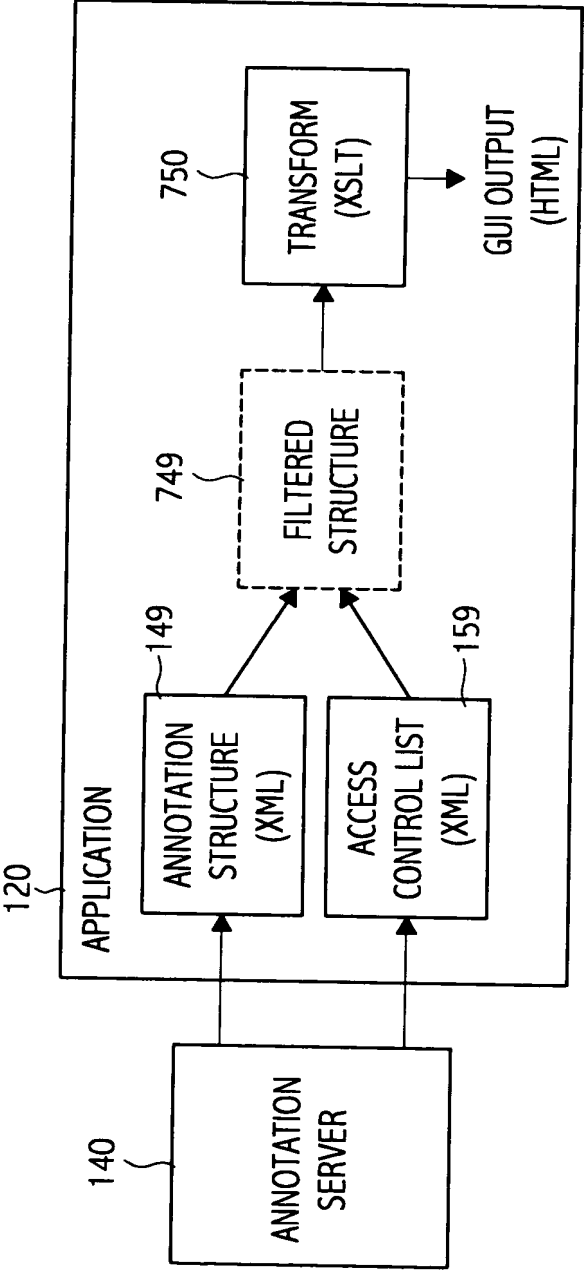


FIG. 7B

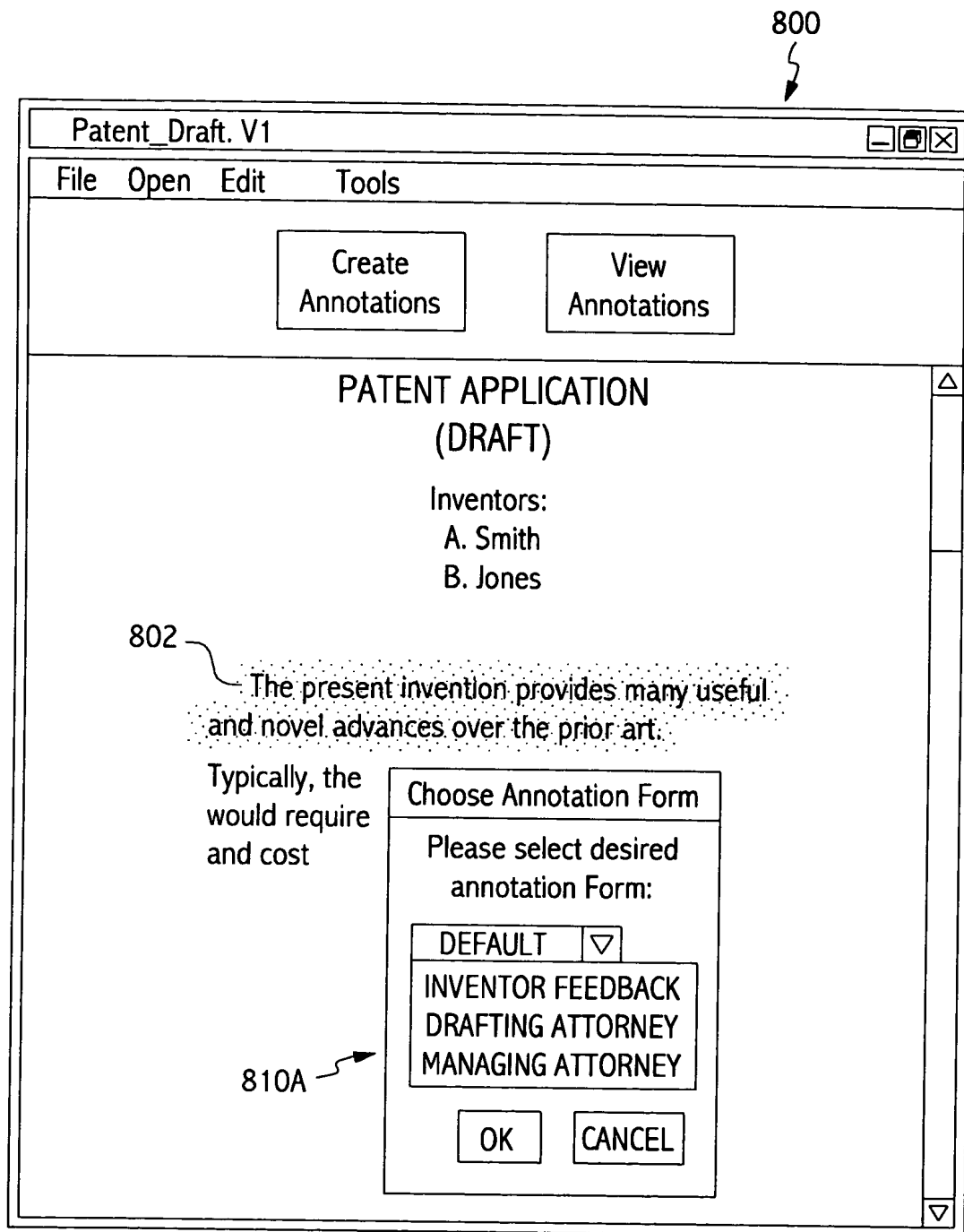


FIG. 8A

Patent_Draft. V1

FORM: DEFAULT

DEFAULT DATA OR DESCRIPTION:

Quality: ☐ Good ☐ Acceptable ☒ Marginal ☐ Poor

Keywords:

Comments:

810B

812B

814B

FIG. 8B

Patent_Draft. V1

FORM: INVENTOR FEEDBACK

DEADLINE 01/01/01

FEEDBACK

Status: ☐ Good ☒ Acceptable ☐ Needs Revision ☐ Needs More Info

Patent Attorney: C. Moore

Inventor: A. Smith

Inventor Comments:

810C

812C

814C

FIG. 8C

900

Annotation Portal
File Edit View Favorites Tools Help

breast cancer	using microarrays to study breast cancer cell lines for the purpose of target identification	2m
colon cancer	using microarrays to study colon cancer cell lines for the purpose of target identification	2m
leukemia	using microarrays to study leukemia cell lines for the purpose of target identification	2m

Annotations
Form: Project Status

Annotation On: Colon Cancer
Made By: Bob Coleman
On: Jan. 1, 2002
Experiment Set ID: ED01
Revision To: None
Experiment Scope: None
Revision To: None
Experiment Deadline: None
Team Deliverable: The number of targets are unchanged. However we now
Revision To: None
Project Budget: None
Project Status: ☒ Green ☐ Yellow ☐ Red

910A

150

FIG. 9A

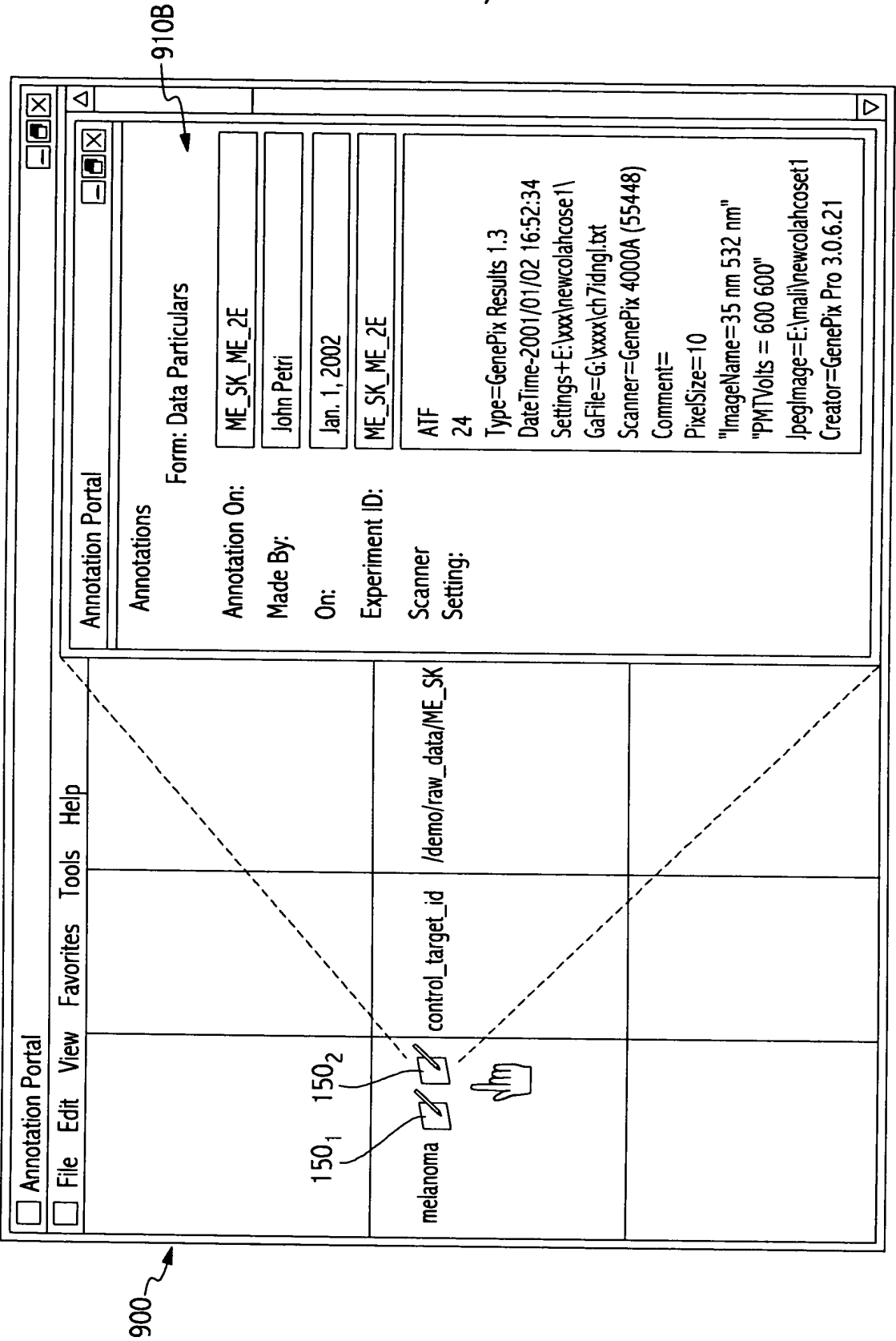


FIG. 9B

Annotation Portal

File Edit View Favorites Tools Help

Home

Welcome

Annotation Rules

Annotation Browser

User: 1bata

Search: Unnamed

SEARCH CONDITIONS

ACTION NOT

Delete ☐ (PROJECT_NAME = target_identificatio-01) 1042

Delete AND ☐ (Spotfire Row Relevance of Observation = Extremely High) 1044

Add Condition Group Ungroup Apply Reset

OUTPUT

Change Data Change Format

SEARCH

Run Save Show Query Cancel

1040

FIG. 10A

1000

The screenshot displays a web application window titled "Annotation Portal". The interface includes a menu bar with "File", "Edit", "View", "Favorites", "Tools", and "Help". Below the menu is a "Home" button with a dropdown arrow. The main content area is divided into sections: "Welcome", "Annotation Rules", "Annotation Browser" (showing "User: 1bata" and "Search: Unnamed"), and "ADD A SEARCH CONDITION".

The "ADD A SEARCH CONDITION" section contains two sub-sections:

- SEARCHABLE DATA FIELDS:** This section lists five categories with corresponding dropdown menus:
 - ☐ Project: PROJECT_ID
 - ☐ Column Name: PROJECT_ID
 - ☐ Experiment: EXPT_SET_NAME
 - ☐ experiment_set: EXPT_SET_ID
 - ☐ data_sets: PROCESS_ID
- SEARCHABLE ANNOTATION FIELDS:** This section lists five categories with corresponding dropdown menus:
 - ☐ Annotation: Link ID
 - ☐ Annotation Data: GUID
 - ☐ Suggested Analysis Methods: Key
 - ☐ Reference Data: Key
 - ☐ Keyword Data: Key

At the bottom of the window are "Next" and "Cancel" buttons. A vertical scrollbar is visible on the right side of the window.

FIG. 10B

1000

The screenshot displays the 'Annotation Portal' application window. At the top is a menu bar with 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. Below the menu is a 'Home' button with a dropdown arrow. The main content area is divided into several sections: 'Welcome', 'Annotation Rules', 'Annotation Browser' (showing 'User: 1bata' and 'Search: Unnamed'), and a large section titled 'ADD A SEARCH CONDITION'. This section contains two sub-sections: 'SEARCHABLE DATA FIELDS' and 'SEARCHABLE ANNOTATION FIELDS'. In 'SEARCHABLE DATA FIELDS', five radio buttons are listed: 'Project', 'Column Name', 'Experiment', 'experiment_set', and 'data_sets'. Each has a corresponding dropdown menu to its right. The 'Project' dropdown shows 'PROJECT_ID'. The 'Column Name' dropdown shows 'PROJECT_ID'. The 'Experiment' dropdown shows 'EXPT_SET_NAME'. The 'experiment_set' dropdown shows 'EXPT_SET_ID'. The 'data_sets' dropdown shows 'PROCESS_ID'. In 'SEARCHABLE ANNOTATION FIELDS', five radio buttons are listed: 'Annotation', 'Annotation Data' (which is selected), 'Suggested Analysis Methods', 'Reference Data', and 'Keyword Data'. Each has a corresponding dropdown menu to its right. The 'Annotation' dropdown shows 'Link ID'. The 'Annotation Data' dropdown shows 'GUID'. The 'Suggested Analysis Methods' dropdown is open, showing a list of items: 'Describe Gene', 'Functional Theme in Cluster', 'Spotfire Row Relevance of Observation' (highlighted), 'Spotfire Row Comments', 'Observation', and 'Spotfire Row Relevance of Observation'. At the bottom of the 'ADD A SEARCH CONDITION' section are 'Next' and 'Cancel' buttons. The entire interface is labeled with the number 1000 at the top left. The 'SEARCHABLE DATA FIELDS' section is labeled with 1010. The 'SEARCHABLE ANNOTATION FIELDS' section is labeled with 1020. The 'Spotfire Row Relevance of Observation' item in the dropdown is labeled with 1030.

Annotation Portal

File Edit View Favorites Tools Help

Home

Welcome

Annotation Rules

Annotation Browser

User: 1bata

Search: Unnamed

ADD A SEARCH CONDITION

SEARCHABLE DATA FIELDS

☐ Project PROJECT_ID

☐ Column Name PROJECT_ID

☐ Experiment EXPT_SET_NAME

☐ experiment_set EXPT_SET_ID

☐ data_sets PROCESS_ID

SEARCHABLE ANNOTATION FIELDS

☐ Annotation Link ID

☒ Annotation Data GUID

☐ Suggested Analysis Methods Describe Gene

☐ Reference Data Functional Theme in Cluster

☐ Keyword Data Spotfire Row Relevance of Observation

Spotfire Row Comments

Observation

Spotfire Row Relevance of Observation

Next Cancel

FIG. 10C